



# DOWNER BLASTING SERVICES



## CONTACT

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## ABOUT DBS

Downer Blasting Services (DBS) is one of the largest blasting services providers in the Australian mining industry.

We provide innovative blasting solutions to projects across Australia, with an extensive fleet of Mobile Processing Units (MPUs), four state-of-the-art emulsion-manufacturing facilities and a 250-strong workforce.

For over a decade we have delivered pioneering blasting services to our impressive list of major resources sector customers.

As a wholly owned subsidiary of Downer Mining, we have the backing and scale of a leading mining services company, but the personal touch of a smaller one.

## OUR PRODUCTS

We know that every mine site is different and that every customer has different needs. That's why we work closely with our customers to produce the specialised products they require.

From working closely with our customers to understand their business drivers and developing detailed blast designs for every new project, to individually configuring each service truck to meet individual user needs, we aim to provide flexible and tailored solutions in each and every situation.

We integrate innovative products and services with engineering expertise and advanced technology to provide our customers with optimal and cost-effective solutions to their individual blasting challenges. With the capacity and licensing to produce, store and transport emulsion, we are able to combine overseas equipment technology with Australian innovation to develop specialised products to meet specific requirements.



## EMULSION-MANUFACTURING FACILITIES AND TECHNOLOGY

We have extensive experience in manufacturing emulsion for blasting and mining operations.

With access to significant quantities of domestic materials to supplement long-term procurement from imported sources, our raw materials supply is secure. This is further supported by our extensive storage facilities, which can accommodate in excess of 40,000 tonnes of ammonium nitrate.

We strive to continually improve the capabilities of our emulsion manufacture technology. In collaboration with an international supplier, we have built and own two world best-practice plants, located at Savage River Mine in Tasmania and Collie in Western Australia. These plants use state-of-the-art technologies to control and measure continuously all aspects of emulsion mixing, which can be remotely monitored.

We also have emulsion manufacturing plants at Bajool Explosives Reserve in Central Queensland and Mt Thorley Industrial Estate in Singleton, New South Wales, where we produce our unique high-stability, low-fume propensity, two-salt emulsion formulations. All facilities include quality-testing laboratories to ensure that the manufactured products meet the stringent DBS chemical compositions.

## OUR CAPABILITIES

DBS provides:

- Down-the-hole and total loading services
- Bulk explosives supply and delivery
- Accessories supply and delivery
- Shotfiring services
- Multiple emulsion manufacturing facilities
- Blast management services (technical support)
- Trained and competent personnel
- Extensive fleet of MPUs
- Underground blasting services.

### ANFO

ANFO is a free-flowing, augered blend of ammonium nitrate and fuel oil for use in dry blastholes, offering:

- A safe and extremely cost-effective explosive in suitable rock types
- Consistent quality
- High blasthole loading rates
- High levels of heave energy combined with efficient charge distribution throughout the blasthole.

### HEAT® EMULSION

High Energy Australian Technology (HEAT®) is a DBS-manufactured and owned emulsion product. HEAT® emulsion is used in our AquaMAX® and ThrowMAX® products. It is available as:

- A single-salt emulsion
- A double-salt emulsion
- HEAT® emulsion series (HEAT® 800, 1600 and 1700)
- Inhibited (single- and double-salt).

### AQUAMAX®

Our AquaMAX® range of products contains a blend of HEAT® emulsion and ANFO. They are gassed and pumped for use in wet blastholes, as well as high-shock, low-heave blasting applications.

AquaMAX® products:

- Have excellent safety characteristics
- Provide high-energy yields capable of fracturing a variety of rock types
- Have excellent water resistance in wet holes, providing extended sleep times in blastholes with no dynamic water
- Can be adapted to meet the energy requirements of a variety of rock types
- Can be varied in density to meet the specific requirements of the blast and rock types
- Are ideal for applications requiring high-shock energy for excellent fragmentation, while minimising ground movement and subsequent dilution.

### THROWMAX®

Our ThrowMAX® Heavy ANFO range of products blends DBS HEAT® emulsion with ANFO, for use in dry and dewatered blastholes.

ThrowMAX® products:

- Are safe and efficient explosives
- Enable high blasthole loading rates
- Have high energy that can easily be adapted to meet the requirements for any rock type in dry or dewatered blastholes
- Have a range of densities and reasonable water resistance
- Can be used in dewatered blastholes with static water conditions.



## OUR FLEET

Our modern, state-of-the-art MPUs include a variety of different truck types to suit each customer's requirements.

We have bowl and bin trucks, which can deliver a range of products, and the latest technology MPUs from Tread Corporation, IEE and DGI.



## AMMONIUM NITRATE STORAGE BOWLS

We have a patented ammonium storage solution that improves safety, efficiency, productivity and inventory management compared to other storage solutions currently used in the industry.

Our ammonium nitrate storage bowl system is easily installed (and relocated), and can be completely operational within three days, with no civil works required.

### FEATURES:

- 30% more productivity compared to other ammonium nitrate management systems
- Two bowls, capable of storing 60T of ammonium nitrate
- Bowls rotate slowly preventing ammonium nitrate caking
- Secure enclosed storage
- Integrated control system
- MPU loading rate approximately 900kg/minute and discharge rate of approximately 1,000kg/minute
- Mounted on load cell to facilitate accurate inventory management and control
- Swing auger with adjustable height allows tippers to drive parallel to the system avoiding reversing and potential damage
- Zero Harm safety design eliminates need for operators to enter a confined space.